



Smart Village Stanz

Fritz Pichler

2nd Meeting of the European Smart Villages Pilot Observatory

28. 11. 2023









INNOVATION PROCESS Business Model Design Reserearch relevant Check on the legal **Good Practices** conformity of a (Ecolise) local currency / tokenization **Social Innovation Smart** Stakeholder analysis Rural (Ecolise) Community planing workshop **Energy Community** (Ecolise) Pilot project for the tokenization of the Agenda central energy **Participation / Co-Creation** exchange 21 Involvement of a broad population **Resilient energy** community Activation of a "Rural Pioneers Support organizational Stanz Community' structure of a REC (core group) 10 Business Models **FFG Technical Innovation** Exemplary energyefficient renovation of a building in the town center Raise energy-Survey of building 2021 2022 2023

Synergetic complementary projects

Stanz+ (FFG) 2020 - 2023 Agenda 21 (Province Styria) 2021 - 2023 Smart Rural Areas (EU-Commission) 2021 - 2022



LOCAL DEVELOPMENT STRATEGY - LAG MARIAZELLERLAND MÜRZTAL 2023-2027











SMART VILLAGE STANZ





STANZ+

Creation of a "best practice" for an innovative PlusEnergy district in the center of the rural community of Stanz im Mürztal.

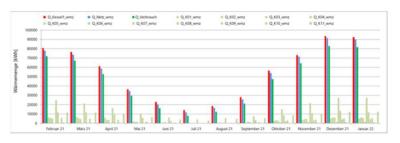
725,000 Euro

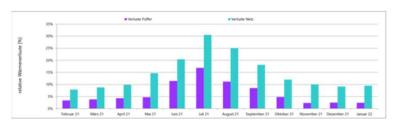
Austrian Research Promotion Agency (FFG)

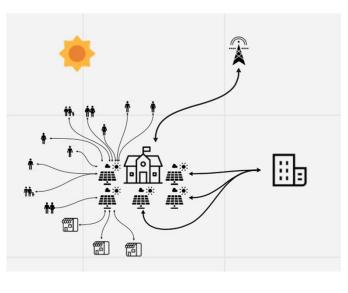


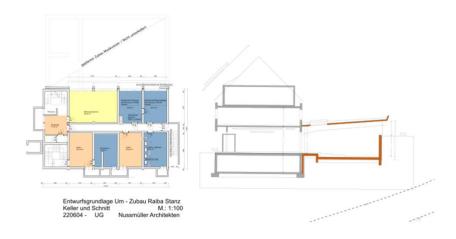


- Nahwärme Obere Stanz
- Holz (Pellets/ Hackschnitzel/ Stück)
- Gas
- Heizöl
- Nicht beheizt









AEE-Intec 2021



Mit Unterstützung von Bund, Ländern und Europäischer Union

Bundesministerium Land- und Forstwirtschaft, Regionen und Wasserwirtschaft







STANZ: OUR POWER

Engagement and participation process to establish a renewable energy community in accordance with the EU Renewable Energy Directive II. Financing of legal advice and establishment of organizational structure.

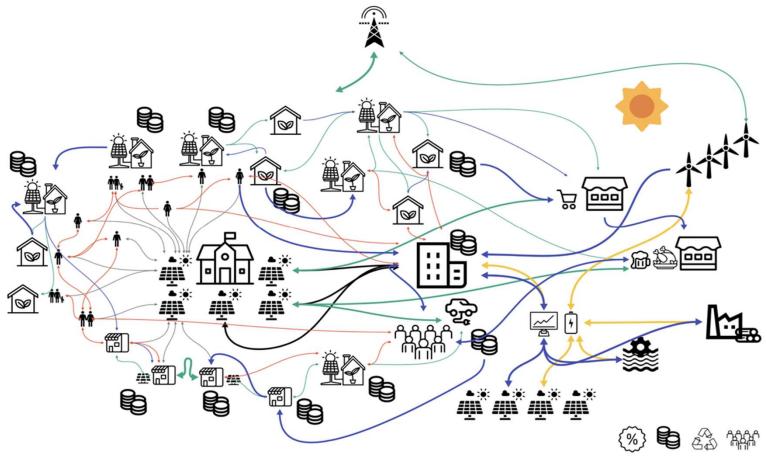
75,000 Euro

Local Agenda 21, Province of Styria / Climate and Energy Fund Austria



Local Energy Group STANZERTAL















SMART VILLAGE STANZ

Local energy transformation and preparation of a local energy

currency based on blockchain technology.

60,000 Euro

Preparatory Action on Smart Rural Areas in the 21st Century







FINAL DRAFT VERSION 03/12/2020

Prepared in the framework of the project on:

Preparatory Action on Smart Rural Areas in the 21th Century



Energy Community in

Stanz im Mürtztal

BEST PRACTICES OF RENEWABLE ENERGY COMMUNITIES

July 2021



Energy Community in

Stanz im Mürtztal

STAKEHOLDER ANALYSIS

June 202







Stanz Token

Examining opportunities to combine a digital local currency with a renewable energy community in Stanz im Mürztal.

Final Version

Agentur SCAN Caliber Consult GmbH ABC Research GmbH

Stanz im Mürztal / Vienna

29th June 2022

Basic equipment for DePIN installed

10 members of EEG Stanzertal equipped with smart meter extensions (energy trackers) for reading, notarisation and transmission of real- time data

WebApp developed

- Data visualisation via dashboard
- Simulation of energy distribution according to EAG in real time
- Consumption advisor
- Device manager









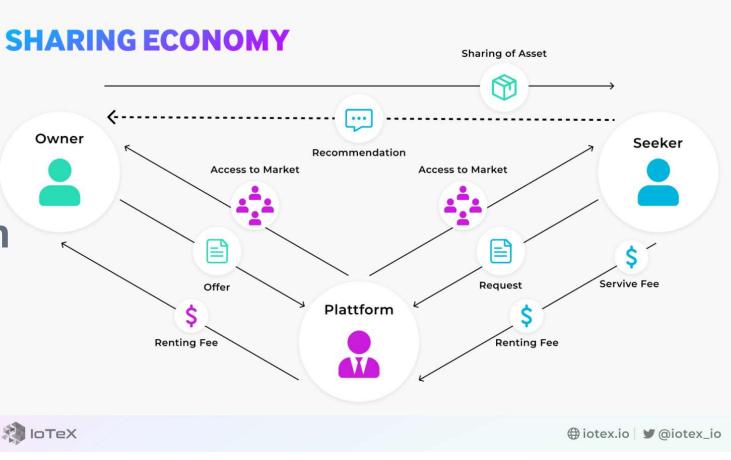
Collective Ownership

Distributed Infrastructure

Decentralization

Open Competition and Innovation





DEPIN LAYER





Storage



























Mobility











Smart City



Sensor









Smart Home

Enviroblog Switch electric

HealthCare

Geo location



E



Foam



Energy









Environmental

natix



mapmetrics







Onocoy





React

Wireless

Geodnet Perkable



IoTeX Ucam IoTeX Pebble

WiCrypt Wifi Dabba

Healthblocks Mindland





Compute

GenesysGo



ScPrime







FLux



Stori





VPN



Render



::-

LivePeer

















nesten



wifimap



WayRu





REALLY

Ceramic







Warehouse









Boring





Sentinel









Aleph

CDN









WiFi



Helium Mobile



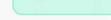
Karrier One XNET

Bluetooth



Hybrid

World Mobile Network



Space and Time

















iExec

Next project to complete: "WEB3 powered Smart Grid" and transfer it to a real laboratory



- Integration of energy trackers in all households that are part of the EEG (up to 250 households)
- Integration of smart home devices (electric car charging stations, battery systems, heat pumps, electric boilers, etc.) for automatic consumption control
- (load shifting).
- Conceptualisation and implementation of an autonomous peer-to-peer trading system, making maximum use of the legal framework provided by EAG and EIWG.

- Financing and integration (into the EEG) of at least one large-scale PV system with the help of a citizen participation model (crowd Funding/Fractional Ownership)
- Final development and implementation of the concept for creating a local energy currency (Stanzertaler) to incentivise sustainable consumption behaviour
- OPTIONAL: Multiple participation of EEG members, e.g. in BEGs, integration of EEG in external markets (wholesale, balancing energy, etc.), integration of the local heating network

